METHOD AND STRUCTURE FOR LOCKING NUT WITH DEFORMABLE MEMBER

ABSTRACT OF THE DISCLOSURE

A structure and method for a locking nut with a deformable member is provided. The locking nut has an elongated body relative to a comparable standard non-locking nut, allowing the nut to provide a standard length of thread for engaging bolt members while also defining a void for carrying the deformable locking member. The void has a forged side-wall structure that substantially engages the locking member within the void while shipping or handling the lock nut. The locking member deforms and flows into thread areas, thereby providing locking and vibration dampening functions, and also deforms or flows into the side-wall structures, thereby enabling the lock nut to impart sufficient frictional forces to the member to remove the deformed member from an assembly when the nut is removed. The locking forces imparted to the structure by the member may be varied and, therefore, increased by user-applied forces.